CAIT
Center for Advanced Infrastructure & Transportation
Rutgers, The State University of New Jersey

QUARTERLY PROGRESS REPORT

Project Title:	The Development of a Performance Specification for Granular Base and Subbase Material
RFP NUMBER:	NJDOT RESEARCH PROJECT MANAGER: Mr. Anthony Chmiel
TASK ORDER NUMBER/Study Number: Task Order No. 83 / 4-23914	PRINCIPAL INVESTIGATOR: Dr. Ali Maher
Study Start Date: 03/01/2000 Study End Date: 08/31/2003	Period Covered: 2nd Quarter 2003

Task	% of Total	% of Task this quarter	% of Task to date	% of Total Complete
Literature Search	5%	25%	100%	5%
1. Material Collection	5%	40%	100%	5%
2. Laboratory Testing	60%	10%	85%	51%
3. Calibration	10%	10%	65%	6.5%
4. Reporting	20%	10%	30%	6%
Final Report				
TOTAL	100%			73.5%

1. Progress this quarter by task:
   - A. It was decided to start the permanent deformation testing before the resilient modulus testing, therefore, permanent deformation testing under a cyclic triaxial mode was being used. Each sample is confined with 15 psi of air pressure with a 45 psi cyclic deviatoric stress applied for 100,000 loading cycles. The permanent deformation at 100,000 cycles is used to compare the permanent deformation potential of the different materials. It was decided to conduct the permanent deformation testing since earlier work by the investigators showed that parameters from a standard triaxial test may be able to be used at an indicator of the permanent deformation test performance. Therefore, comparisons of the two tests wanted to be made. It is anticipated that by the time of the quarterly meeting, most, if not all of the permanent deformation testing will be finished, analyzed, and available for review.
   - B. Due to the need for alternate tests to correlate to resilient modulus parameters, CBR testing has started on the materials. The CBR values will be used to help develop correlations for resilient modulus to be used in the upcoming Pavement Design Guide.

2. Proposed activities for next quarter by task:
   - A. Start and finish resilient modulus testing.

3. List of deliverables provided in this quarter by task (product date)
   N.A.

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4. Progress on Implementation and Training Activities

N.A.

5. Problems/Proposed Solutions

N.A.

6. Budget Summary*

Total Project Budget(# of years)	2 Years	$286,041.00
Total Project Expenditure to date		$277,053
% of Total Project Budget Expended		97%
Task Order Number/Study Number:		83 / 4-23914
Current Task Order Budget (# of years)	Year 1 and 2	$286,041.00
Actual Expenditure to date against current task order		$277,053
% of current task order budget expended		97%

* These are approximate expended amounts for the project; these estimates are for reference only and should not be used for official accounting purposes. For a more accurate project accounting please review the quarterly invoice for this project.